

This listing of claims will replace all prior versions, and listings, of claims in the application:

**Listing of Claims:**

Claim 1. (previously amended) A method for the micropropagation in tissue culture of plantlets of *Arundo donax*, comprising:

- (a) obtaining explant material from meristematic tissue, juvenile or immature *Arundo donax* plant structures;
- (b) cleaning said explant material to obtain aseptic plant material;
- (c) introducing said aseptic explant material into a semi-solid or solid embryo induction medium, allowing for the production of mature embryos;
- (d) culturing the mature embryos on semi-solid or solid germination medium to thereby generate said plantlets; and
- (e) transferring the plantlets or nodal segments thereof to a solid or semi-solid shoot multiplication medium to obtain multiple shoots from the plantlets.

Claim 2 (original) The method of claim 1, further comprising transferring the mature embryos from step (c) to a liquid suspension culture medium to thereby induce the production of more embryos prior to step (d).

Claim 3 (original) The method of claim 1, further comprising transferring the mature embryos from step (c) to a liquid suspension culture medium to thereby induce the production of more embryos, followed by splitting and subculturing in fresh liquid suspension medium to induce further embryo multiplication, prior to step (d).

Claim 4 (previously cancelled).

Claim 5 (original) The method of claim 1, further comprising transferring the plantlets to a rooting medium that will induce the growth of roots on the plantlets.

Claim 6 (original) The method of claim 1, wherein the embryo induction medium comprises a basal plant medium supplemented with sucrose, a gelling agent, and one or more of 2,4-dichlorophenoxyacetic acid (2,4-D), 6-benzyladenine (BA), indoleacetic acid (IAA), kinetin (K), and thidiazuron (TDZ).

Claim 7 (original) The method of claim 6, wherein the basal plant medium is LS or MS medium.

Claim 8 (original) The method of claim 7, wherein the embryo induction medium comprises LS medium supplemented with IAA, 2,4-D and sucrose.

Claim 9 (original) The method of claim 8, which contains 1.0 mg/L IAA, 2 mg/L 2,4-D and 20 g/L sucrose.

Claim 10 (original) The method of claim 1, wherein the germination medium comprises a basal plant medium supplemented with sucrose and a gelling agent.

Claim 11 (original) The method of claim 10, wherein the basal plant medium is LS or MS medium.

Claim 12 (original) The method of claim 2, wherein the liquid suspension culture medium comprises a basal plant medium supplemented with sucrose, and one or more of 2,4-dichlorophenoxyacetic acid (2,4-D), 6-benzyladenine (BA), indoleacetic acid (IAA), kinetin (K), and thidiazuron (TDZ).

Claim 13 (original) The method of claim 12, which comprises one or more of 1 – 6 mg/L 2,4-D, 0.5 – 2 mg/L BA, 1 - 3 mg/L BA, 1 – 3 mg/L K, and 0.05 – 1.0 mg/L TDZ.

Claim 14 (original) The method of claim 12, wherein the liquid suspension culture medium further comprises asparagine.

Claim 15 (previously amended) The method of claim 1, wherein the shoot multiplication medium comprises a basal plant medium supplemented with sucrose, a gelling agent, and one or more of 2,4-dichlorophenoxyacetic acid (2,4-D), 6-benzyladenine (BA), indoleacetic acid (IAA), kinetin (K), and thidiazuron (TDZ).

Claim 16 (original) The method of claim 15, wherein the shoot multiplication medium comprises MS medium supplemented with Gamborg's vitamins, BA, TDZ and sucrose.

Claim 17 (original) The method of claim 16, which contains 1.0 mg/L BA, 0.05 mg/L TDZ and 30 g/L sucrose.

Claims 18 - 40 (currently cancelled)

Claim 41 (previously added) The method of claim 5, wherein the rooting medium is a basal plant medium, which is at one half its concentration, supplemented with sucrose and a gelling agent.

Claim 42 (previously added) The method of claim 41, wherein the basal plant medium is LS or MS medium.

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Claim 43 (previously added) The method of claim 1, which further comprises growing the resulting plantlets to the maturity of a plant that is ready to plant in the field.

Claims 44 to 55 (currently cancelled)